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TITLE: Sustained-release pharmaceutical powders containing

soluble collagen (derivatives) as carriers

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PATENT ASSIGNEE(S): Koken Co., Ltd., Japan

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CODEN: JKXXAF

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JP 2	2789115	В2	19980820				
JP 1	10182499	A	19980707	JP	1998-48559		19980216
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AB Soluble collagen and/or soluble collagen derivative solns. or dispersions containing  $\geq 1$  active ingredient(s) are spray-dried to manufacture the title powders (average particle size 0.1-50  $\mu$ m). The powders are useful for ophthalmic treatment, etc. An aqueous solution (pH 9) containing 2.5 g bovine atherocollagen was treated with 1 g succinic anhydride to give succinic acid-modified collagen. An aqueous 1% the modified collagen solution (1 L) was mixed with 500  $\mu$ m gentamycin (I) and the mixture was spray-dried at 60° to manufacture powders (average particle size 2.5  $\mu$ m), which were applied to eyes of rabbits to show I controlled-release property. The concentration of I in the tear was kept higher than with I injection even 6 h after.

IC ICM A61K009-16

ICS A61K047-42

CC 63-6 (Pharmaceuticals)

IT Collagens, biological studies

RL: BIOL (Biological study)

(water-soluble, pharmaceutical powders containing,

sustained-release)

IT Collagens, biological studies

RL: BIOL (Biological study)

(atelo-, pharmaceutical powders containing, sustained-release)

IT Pharmaceutical dosage forms

(powders, sustained-release, containing water-soluble collagen (derivs.))